



Sheet 1 of 10

Form PTO-1449 (Modified)				Atty. Docket No. 27/281		Application No. 10/577,858		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: Shlomo Ruschin et al				
				Filing Date: 28-Apr-2006		Group Art Unit:		
U.S. PATENT DOCUMENTS								
	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE	
AA	EB	2002/0048289	Apr 2002	Atanackovic et al.				
AB								
AC								
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AE								
AF								
AG								
AH								
AI								
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
AJ								
AK								
AL								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
AM	EB	Alexander Torchigin and Sergey Torchigin, "One dimensional inhomogeneous photonic bandgap structures based on tapered fibers." J. Opt. A: Pure Appl. Opt. (2002) 274-282.22 (March 2002 (22.03.2002)						
AN	EB	W. Both, R. Rimpler. "Effect of Homogeneous Stress and Temperature Distribution in A Laser Diode on the Pulsation" pp. 330-332. 5 NOV 1990 (05.10.1990)						
AO	EB	Pierre Muret and Christopher Saby. "Band Bending, electronic affinity and density of states at several (100) surfaces of a boron-doped homoepitaxial Diamond Thin Films", p. 1-7. 30 Sept 2003						
EXAMINER Eric Boldt				DATE CONSIDERED 6/26/07				
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
BJ							
BK							
BL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BM	EB	Mark Csele Fundamentals of Light Sources and Lasers. Copyright 2004 John Wiley & Sons, Inc. pp. 117-158, 2004					
BN	EB	"Temperature Dependence of the Indirect Energy Gap in Crystalline Silicon" V. Alex, S.Finkbeiner, J. Weber, J. Appl. Phys. 79, p 6943 (1996)					
BO	EB	"Gaining Light From Silicon," Leigh Canham; Nature, , Vol. 408, pp 411-412 (2000)					
EXAMINER Eric Bolda				DATE CONSIDERED 6/26/07			
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	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CA							
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
CJ							
CK							
CL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
CM	EB	"Infrared to Visible Up-Conversion Using GaP Light-Emitting Diodes" W. Eisfeld, U. Werling, and W. Prettl, Appl. Physics Lett. Vol 42, pp. 276-278 (9183)					
CN	EB	"Optical Absorption Coefficient of Silicon et al" ; G.E. Jellison. Kr. Lowndes. D.H. Lowndes, Appl. Phys. Lett. Vol. 47; p 594 (1982)					
CO	EB	"Gasdynamic Lasers" S.A. Losev, (Springer-Verlag Berlin, 1981)					
EXAMINER Eric Bolden				DATE CONSIDERED 6/26/07			
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
DJ							
DK							
DL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DM	EB	"Applied Physics Letter" R. Normandin, D.C. Houghton, M. Simard-Normandin, and Y. Zhang. Canadian. Journal of Phys. 66, 833 (1988)					
DN	EB	L. Pavesi, Proceeding of SPIE - Vol. 4997, 206-220 (2003) ' A Review of Various Approaches to Silicon Laser"					
DO	EB	Book by J.F. Ready, "Effect of High-Power Laser Radiation" (Academic Press, 1971)					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
EJ							
EK							
EL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EM	EB	'Modulation of Light by Light in Silicon-on-Insulator Waveguides'; Appl. Physics Lett. Vol. 83. No 25, pp 5151-5153 (2003); S. Stepanov and S. Ruschin					
EN	EB	Book by : S.M. Sze, "Physics of Semiconductor Devices, 2 nd Ed.) (New York: Wiley 1981)					
EO	EB	Optical Gain in Material With Indirect Transitions"; T. Trupke, M.A. Green and P. Wurfel; Journal of Applied Physics Vol 93, No. 11, PP. 9058-9061 (2003)					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
FJ							
FK							
FL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
FM	EB	"Influence of pn Junction Formation et al." Physical Review B, Vol 64, 132202-1---033202-4 (2001), by B.J. Pawlak and N.Q. Vinh, T. Gregorkiewicz and K. Thonke					
FN	EB	"Generation, Amplification and Detection of Infra and Optical et al." N.G. Basov, O.N. Krokhin and Yu M. Popv, Sov Phys. Vol 3, No. 5 JETP 13, 845 (1961)					
FO	EB	"Stimulated Raman Scattering in Silicon Waveguides" , R. Claps, D. Dimitropoulos, B. Jalali,, Electron. Lett. 38,1352 (2002)					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
GJ							
GK							
GL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
GM	EB	"Coefficient Determination Related to Optical Gain et al." ; Hak-Seung Han, Se-Young Seo, Shin JH, Namkyoo Part, Appl. Phys. Lett. Vol. 81, No. 20, 3720-3722 (2002)					
GN	EB	"Nanosecond Laser Amplification Via Degenerate Multiwave Mixing et al." I.C. Khoo, R. Normandin, Appl. Phys. Lett Vol. 52, p. 525 (1988)					
GO	EB	"Photoluminescence From Gold Centre in Silicon" J. Mazzaschi , J.C. Brabant, B. Brousseau, J. Barran, J. Brousseau, F. Voillot and P. Bacuvier, Solid State Communications, Vol 39, Issue 10, pp. 1091-1092 (1981)					
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FOREIGN PATENT DOCUMENTS							
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							YES NO
HJ							
HK							
HL							
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HM	EB	"Light-Induced Radiative Recombination Centers et al.", J.I. Pankove and J.E. Berkeyheiser, Appl. Phys. Rev. B, Vol. 37(8), pp 705-706 (1980)					
HN	EB	"Radiation Damage and Defects in Semiconductors: proceedings of the International Conference Organized by the Institute of Physics, held at the Univ. of Reading (1972) ; Author: Whitehouse, J.E.					
HO	EB	'Dislocation -Related Photoluminescence in Silicon," R. Sauer, J. Weber, J. Stolz. E.R. Webek, K-H Kusters, and H.Alexander, Appl. Phys. A, Vol 36, No. 1, pp. 1-13 (1985)					
EXAMINER Eric Bulda				DATE CONSIDERED 6/26/07			
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
IJ							
IK							
IL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
IM	EN	"Silicon Temperature Measurement by Infrared Absorption et al." J.C. Strum , C.M. Reeves, IEEE Trans. On Electron Devices Vol. 39, No. 1, page 81 (1992)					
IN	EN	"Emissivity of Silicon at Elevated Temp." , P.J. Timans, J. Appl. Phys. , Vol 74 (10) , p. 6353-6364 (1993)					
IO	EN	"Electrical and Optical Properties of Gold-Doped n-type Silicon", H. Weman, A. Henry, T. Begum, B. Monemar, O.O. Awadelkarim and J.L. Lindstrom, J. Appl. Phys. Vol. 65 (1) pp. 137-145 (1989)					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							YES NO
JJ							
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JL							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
JM	EB	Atanackovic, B. Petar, Marshall R. Larry; "Devices with Optical Gain in Silicon" See US Patent Application 2002/0048289					
JN							
JO							
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